micromega

ARIA

USER'S MANUAL

Dear Customer,
Thank you for purchasing ARIA.
This unit provides ease of use and sonics of the highest quality. Please pay close attention to this instruction manual, and read it fully before attempting to operate. It is designed to ensure that you maximise your pleasure of ARIA and familiarise you with its many unique functions.

CHECKING

Check that the carton has no damage. Should you have any doubt about its condition, please do not hesitate to contact your dealer.

UNPACKING

Very carefully remove the unit from the box, taking care to preserve all the packing material. It is good practice to put the carton and its contents into an outer plastic bag and deposit it somewhere safe and dry. In the unlikely event that your unit needs to be sent back to either your dealer or distributor, it must be sent in the original packing material. Failure to observe this will invalidate your warranty.

ACCESSORIES

Upon opening the carton you should find the following:

- Mains Lead.
- Stereo Cinch cable
- Remote control Handset and 2x AAA batteries.

MAINS VOLTAGE

Check that the mains voltage indicated on both the carton and the bottom of the unit correspond to the local power supply
If you are in any doubt, consult your dealer.

INSTALLATION

In order to obtain the maximum performance of ARIA, it is important to follow the installation instructions.
Wherever possible, we recommend that ARIA is installed in an audio rack or other suitable furniture that provides sufficient ventilation.

CONNECTIONS

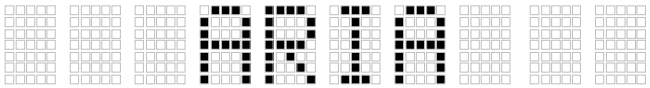
Having verified that the ON/OFF switch is on OFF position, connect the mains leads provided to the rear of the unit and to the wall socket.
Connect the interconnect cable from the rear of ARIA to your amplifier input. Connect the Digital out if required.

COVER CLEANING

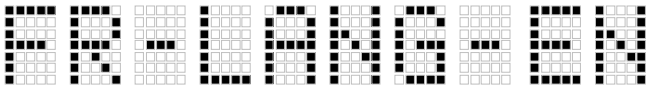
To clean up the lid, use a soft rag, out of cotton preferably and window cleaner.
We advise you to not use any products containing silicone and to avoid the use of solvents. This could lead to damage irremediably the shiny and transparent aspect of the cover.
In any case, please manipulate the cover with caution.
When the device is not used, check that the cover is left close.

POWER UP

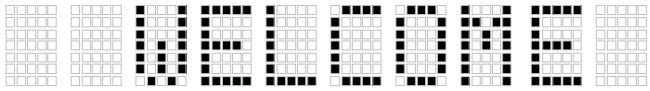
You may now turn on ARIA by switching the ON/OFF switch located at the back of the unit.
A message “ARIA” is written for a second.



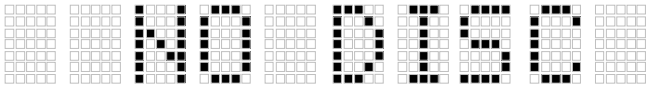
At first start-up, or when both keys **PLAY** and **PREV** are pressed simultaneously and when power is switched on, you can choose the displaying language of ARIA:



Press **STOP** to select French or **PLAY** to select English. There is 5 seconds to do so, if not English language is selected by default.
Then a welcoming message appears.



The standby LED lightens up indicating that the unit is in standby mode.
Press once the **CD** key of the remote control or the **STANDBY** key of the unit.
If there is a disc, reading starts and its content is displayed. Otherwise the unit indicates:



ARIA FRONT PANEL

STANDBY: To switch the unit in and out of Standby mode. A red LED located above the key illuminates when in Standby mode.

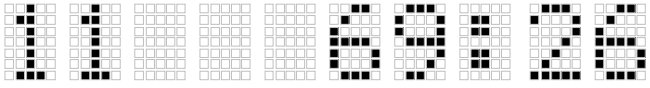
NEXT: Selection of the next track and forward search during play.

PREV: Selection of the previous track and reverse search during play .To replay the current track during play.

PLAY: To start play and to pause during play, absolute phase inversion (long pressure).

STOP: To stop play, to clear a program in stop. Digital output on/off (cover open), display on/off (long pressure).

DISPLAY

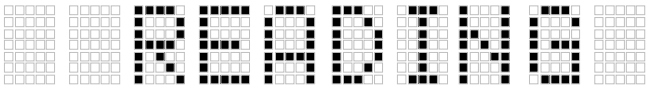


The display indicates:

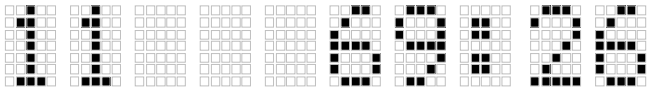
- On the left side track indication,.
- In the middle the status of the unit
- On the right side the time in minutes and seconds.

PLAY

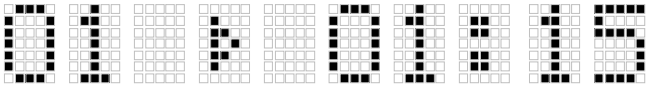
Open the cover and place a disc. Be careful to place correctly the puck at the centre. When the cover is closed, the player reads the disc:



And displays its contents:



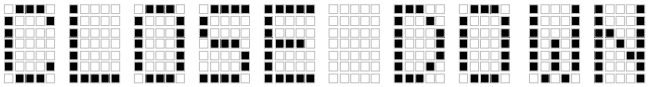
If no disc is detected, the display indicates "NO DISC".
Press **PLAY** to begin reading the disc. The display indicates:



The display indicates on the left hand the current track, play mode and elapsed time on the right hand.
If you wish to stop playing a disc, press **STOP** on the unit or with the remote or open the cover.

STANDBY MODE

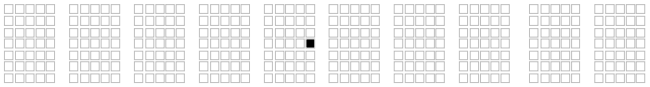
To put the player in standby mode again, press **STANDBY** on the unit or both **Display ▼** and **Display ▲** of the remote.
If the cover is open, the display indicates:



Once the cover has been closed, the LED illuminates showing the device is in standby mode.

DISPLAY OFF

You can choose to minimize the display by pressing the key **Display ▼** of the remote or by a long pressure on the **STOP** key of the unit.
In that case ARIA only displays one point on the screen:



When accessing another function, the display becomes full again for 5 seconds to show the state of the unit.
If you open the cover, the display indicates “open” and stays lighten. However the function remains active once the cover is down again.
To come back to normal displaying mode, press **Display ▲** on the remote or do a long pressure of the **STOP** key.

TRACK SELECTION

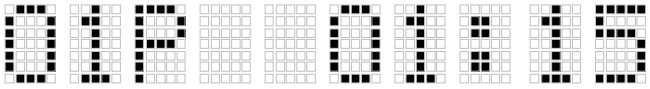
You may directly access any track using of the **NEXT** or **PREV** keys of the device or remote control.

SEARCH

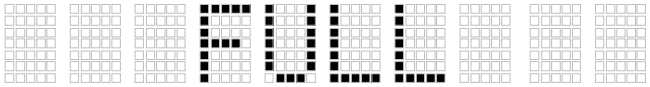
A long pressure on the **PREV** key will allow you to search for a passage in reverse direction whereas a long pressure on the **NEXT** key will allow you to search for a passage in the forward direction.
The time that you continue to press the key determines the speed of the search.
For the first five seconds the output volume is reduced, then the search speed is increased and the sound is muted because the jumps are too big to deliver an accurate audio signal.

PROGRAM

Programming can only be done from the remote control handset.
You may program a maximum of 40 tracks of the same disc.
Select the number of the track that you desire to store by using the **PREV** or **NEXT** keys.
Store your choice by pressing the **PRG-Φ** key. The display indicates for instance:



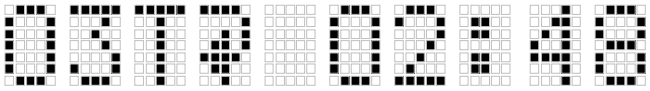
The first two digits indicate that one track has been programmed and the last 4 ones are the duration of the program.
Each time you select a track (by using the **PREV** or **NEXT** keys) and store it (**PRG-Φ** key), the display will show the number of stored tracks and the total time of this selection.
Select all the tracks you wish to program. If the program is full, the display indicates:



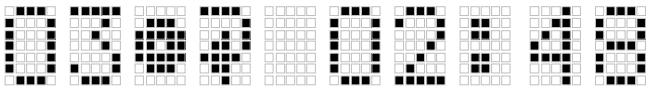
Press the **PLAY** key to start playing your selection.
When the selection has finished, press the **STOP** key again to clear the selection until P disappear from the display.

REPEAT

Press the **REPEAT** key before or during Play.
The display indicates that you are repeating the current track:



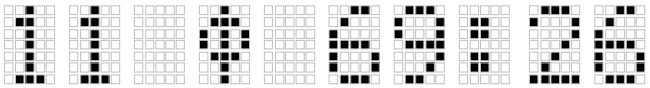
Press the **REPEAT** key again and the display will indicate that you will be repeating the whole disc:



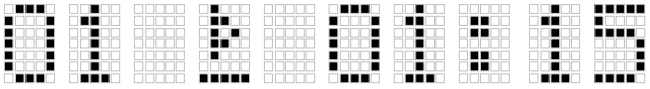
Press the **REPEAT** key to cancel the repeat mode.

ABSOLUTE PHASE

Absolute phase allows you to listen to a disc keeping the original phase.
If you want to reverse the absolute phase to listen to your disc, do a long pressure on **PLAY** during play or press **PRG-Φ** of the remote in stop or play mode.
The display indicates that phase is reversed:
- in stop mode:



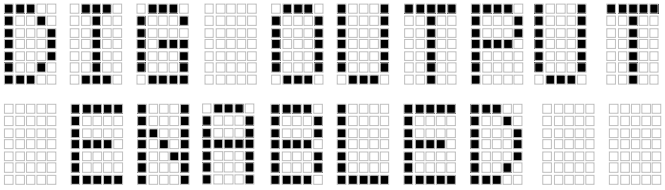
- in play mode:



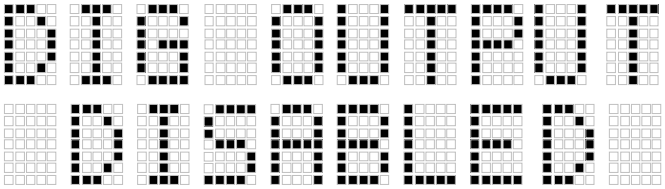
To come back to normal mode, just do the same operation.
As this setting is particular for each disc, and even for each track, absolute phase is not inverted at reset or when the cover has been opened.

DIGITAL OUPUT

You can activate the Digital output by pressing on the **STOP** key while the cover is opened. This is necessary if you wish to use a separate Digital to Analog converter or if you wish to make a Digital recording.
When activated, the display indicates:



If you want to disable the digital output, you can switch back to normal mode using the same procedure:



Please keep in mind that switching digital output needs the cover to be opened.
The use or not of this output is stored in non volatile memory so you don't need to set it up at each start.

OTHER AVAILABLE FUNCTIONS

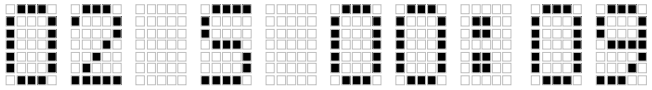
Those functions are neither on the keys of ARIA nor the remote but can however be accessed with a programmable remote.

For people willing to program such a remote, we indicate under the title of each function the code used, the system and command numbers.

SCAN MODE (SCAN)

RC5 - system 20 - command 43

Press the **SCAN** key in either Stop or Play mode to start playing each track for 10 seconds.
The display indicates:

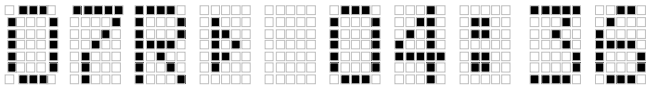


If you find a track that you wish to play completely, press the **PLAY** key.

RANDOM MODE (RANDOM)

RC5 - system 20 - command 28

Press the **RANDOM** key before Play.
The display indicates:

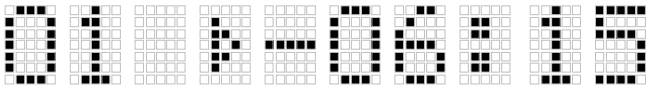


Press the **STOP** key twice to exit random mode: once to stop, once to exit random mode.

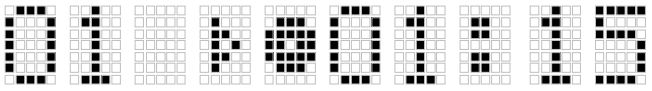
TIME INFORMATION (TIME)

RC5 - system 20 - command 11

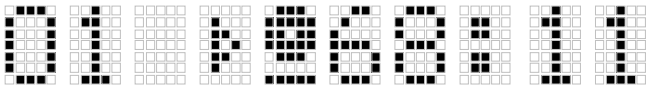
Press the **TIME** key if you wish to know the remaining time of the playing track (*REM TIME*). The display indicates:



Press the **TIME** key again during Play if you wish to know the elapsed time since the beginning of the disc. (*TOTAL TIME*):



Press the **TIME** key again if you wish to know the remaining time on the disc. (*TOTAL REM TIME*):

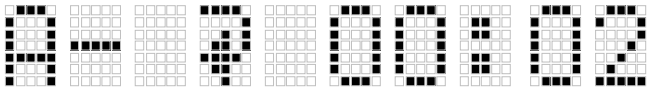


Press the **TIME** key again if you wish to return to default (*TRACK TIME*).

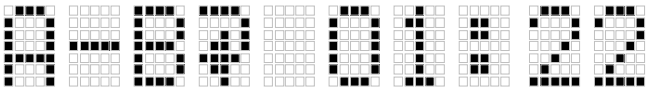
A/B REPEAT

RC5 - system 20 - command 59

Press the **A-B** key while in play at the starting point of the passage that you wish to repeat. The display indicates:



Press again the **A-B** key at the final point of the passage that you wish to repeat. The display will then indicate:



You will play in loop the part from 2 seconds to 1 minute and 22 seconds.
Press the **A-B** key to cancel the A/B mode.

DIRECT TRACK SELECTION (0-9)

RC5 - system 20 - commands 0-9

Select a track directly. This is only usable in play or program mode.

RS-232 CONTROL INTERFACE

A DB9 female connector located on the rear panel of ARIA, allows to control the player via RS232 interface.
ARIA accepts the following format:

Baud Rate : 19200 Bauds
Data bits : 8
Parity bit : None
Stop bits : 1
Flow control : None

You will find complete instructions concerning this interface in the separate RS232-ARIA manual.

MICROMEGA wishes you long and pleasant hours of listening music with your ARIA player.

TECHNICAL CHARACTERISTICS

Audio Characteristics

Bandwidth (- 0.5dB)…….... DC – 20Khz
Linearity at –90dB…….…….< 0.5dB
Signal/noise ratio + THD ……... < -96dB at 1 kHz
Crosstalk…….. >100dB at 1 kHz
Digital to Analog conversion……1 bit / 256 fs
Impedance ……...600 Ω
Output level ……..2Vrms / 0dB

Power Supply

Power consumption ……....….30 W
Fuse type T 160mA / 250V (Slow Blow)
T 315mA / 130V (Slow Blow)

Dimensions: (W x D x H mm)… …… 340 x 300 x 100

Weight ……..7.0 Kg

WARRANTY

The ARIA player is guaranteed 2 years from the date of purchase.
If your device necessitated an intervention, you should bring it back to the dealer from which you purchase it, in his original packaging and with proof of purchase.
The guarantee covers the manufacture vices except all other damage such as:
- An accident
- A negligence
- A bad manipulation
- An installation not in accordance with the present manual
- A carried out intervention by non competent people.
- Transportation damages (damages will only be taken into account by the carrier if you warned it of the usual reserves during delivery.)

ATTENTION: The guarantee automatically cancels itself if your device is not dispatched in his original packing or if the number of series was obliterated or changed.

Warranty Certificate

Purchase Date

_____

Dealer's Stamp

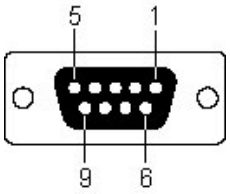
MICROMEGA S.A. 4, rue Vermont, ZA des Boutries, 78700 Conflans Sainte Honorine FRANCE
TEL: +33 (0)1 3490 2500 **FAX:** +33 (0)1 3919 8323 **INTERNET:** http://www.micromega-hifi.com

1. TECHNICAL SPECIFICATIONS

Baud rate	:	19200 bauds
Data	:	8 bits
Stop bits	:	1
Parity bit	:	none
Flow control	:	none

Wiring diagram:

pin 2 : Tx
pin 3 : Rx
pin 5 : Gnd



2. COMMAND FORMAT

Each command must be sent using the following prototype:

$,ARIA,␣,COMMAND,[DATAS],€

- $: decimal 36, start byte.
- ARIA: device identifier.
- ␣ is the space required between header and command.
- COMMAND: 1 byte. Available commands are given next page.
- DATAS : 0 to n bytes.
- € : decimal 128, end byte.

When a command requires an answer, it is formatted as follow:

#,ARIA,␣,COMMAND,DATAS, ¶

- # : decimal 35, start byte
- ARIA : device identifier
- ␣ is the space required between header and command.
- COMMAND : 1 byte.
- DATAS:1 to n bytes.
- ¶ : decimal 182, end byte.

Note: Comas are written only to ease the reading and must not be sent via RS232.

3. EXAMPLES

- To switch out of standby:

Command	$ARIA >?€	Out of standby.

- To access a track directly:

Command	$ARIA T□€	Select track □

- To get program list:

Command	$ARIA L€	Program list.
Return:	#ARIA L,□,□,□,□,□,□,□,□,□,¶	

Where first □ is the number of programmed tracks, others □ are the list of tracks.
In that case we considered that the disc has 8 tracks.

Characters □ replaces non printable ASCII characters.

ARIA also sends automatically a status update every 300ms.

Simple RS232 Commands

Command	Data	ASCII
Reset	48	0
Clear program	49	1
Phase inverted/ non inverted	50	2
RC5 command	62	>
	RC5 code	see Table
Track select	84	T
	track (0..99)	***
Program	80	P
	track 1 (0..99)	***
	…	***
	track n (0..99)	***
Program cancel	67	C
	track 1 (0..99)	***
	…	***
	track n (0..99)	***

*** indicates a non printable ASCII character

Commands with return values

Command	Data	ASCII	Output Data
Program list	76	L	76
			Number of tracks(0..99)
			track 1 (0..99) …
			track n (0..99)
Disc info	63	?	63
			Total tracks (0..99)
			Total time min (0..99)
			Total time sec (0..59)
			Total time frames (0..74)
Status Update	33	!	33
			player status* (0..13)
			global status* (0bxxxxxxxx)
			Display Mode* (0..3)
			Repeat Mode* (0..2)
			track number* (0..99)
			track min* (0..99)
			track sec* (0..59)

RC5 command codes

Command	Data	ASCII
Out of standby	63	?
Standby	12	***
Play	53	5
Pause	48	0
Stop	54	6
Next	32	<SPACE>
Previous	33	!
Fast forward on	52	4
Fast rewind on	50	2
Ffw/Frw off	70	F
SetAB	59	;
Display on	18	***
Display off	19	***
Dobm on/off	69	E
Repeat	29	***
Display	11	***
Shuffle	28	***
Scan	43	+

*** indicates a non printable ASCII character

Player status	
0	Standby
1	Open
2	Play
3	Pause
4	Stop
5	No disc
6	Wait close
7	Sledge error
8	Start error
9	Stop error
10	Search error
11	TOC error
12	Focus error
13	Radial error

Global status	
bit 7	DigitalOut on
bit 6	Phase inverted
bit 5	Shuffle
bit 4	Display dim
bit 3	Cover open
bit 2	French language
bit 1	Error
bit 0	Standby

Repeat Mode	
0	Repeat mode off
1	Repeat track
2	Repeat disc

Display Mode	
0	Elapsed track time
1	Remaining track time
2	Elapsed disc time
3	Remaining disc time

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